

Figure 5.2, New thermostat housing on our MD5A, the thermostat is located under the lid. You see the inlet of coolant water (high up to the left), the passage and further into the cylinder head (bottom right) and finally the pipe that leads the water on to the exhaust bend (high up to the right).

If you have freshwater cooling, an internal cooling system is added which contains, among other things heat exchanger and an electric water pump. One must make sure that the electric the water rag always works. I do not make a description of the freshwater cooling system without refers to Volvo Penta and Martec.

5.2 Thermostat

Thermostat with gasket VP part number 838286-3.

Some rubber sealing rings may be needed for the metal pipes, one for each metal pipe in the thermostat housing, article number 829714-5

To open the thermostat housing cover to access the thermostat, a 6mm is needed Allen key.

Always bring an extra thermostat in the boat. In an emergency you should be able to pick out a defective thermostat. The engine then receives constant full cooling and will run "cold" which causes the effect to decrease. There is a risk that water will leak then the gasket is located on the thermostat.

The thermostat in boats with seawater cooling starts to open at 60 degrees and is fully open at about 75 degrees.

Figure 5.3, The thermostat is located under the cover (thermostat housing cover). In the picture you can see it old now replaced thermostat cover.

Remove the thermostat

Close the cooling water tap on the gear
the boat is in the water otherwise there is a risk
that the boat is filled with water.

Remove the thermostat housing cover and remove

the thermostat. The metal pipes that sit in the thermostat housing cover is included rubber seals type "thick o-rings" and can be pryed off to remove the lid to access the thermostat. See picture 5.2, 5.3 and 5.4. You must loosen the cooling water inlet pipe and also loosen the pipe the exhaust bend. Then it's usually easy to get the thermostat out. To loosen the pipe on the exhaust bend, 12 keys are needed.

Figure 5.4, disassembly of thermostat

Install the thermostat

The gasket is located directly on the thermostat. Connect all cooling water pipes and make sure that it seems tight. If necessary, replace O-rings for the pipes. If you are careless the rubber seals, it becomes a water fountain from the thermostat lid when starting.

Start the engine and check that everything seems tight.

I think it's easiest to assemble in this order:

- Lower right tube that goes in under the frost plug.
- Screw the theme switch cover in the engine (Allen key).
- Insert the pipe that goes to the exhaust bend, mount the two bolts on the bend (12 mm wrench)
- Fit the inlet pipe (upper left).

Reopen the cooling water tap on the gear the tap was closed during disassembly.

Figure 5.5, installation of thermostat